



King's Research Portal

DOI:

[10.1016/S1474-4422\(17\)30089-3](https://doi.org/10.1016/S1474-4422(17)30089-3)

Document Version

Peer reviewed version

[Link to publication record in King's Research Portal](#)

Citation for published version (APA):

Mueller, C., Ballard, C., Corbett, A., & Aarsland, D. (2017). Historical landmarks in dementia with Lewy bodies. *Lancet Neurology*, 16(5), 348. [https://doi.org/10.1016/S1474-4422\(17\)30089-3](https://doi.org/10.1016/S1474-4422(17)30089-3)

Citing this paper

Please note that where the full-text provided on King's Research Portal is the Author Accepted Manuscript or Post-Print version this may differ from the final Published version. If citing, it is advised that you check and use the publisher's definitive version for pagination, volume/issue, and date of publication details. And where the final published version is provided on the Research Portal, if citing you are again advised to check the publisher's website for any subsequent corrections.

General rights

Copyright and moral rights for the publications made accessible in the Research Portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognize and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the Research Portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the Research Portal

Take down policy

If you believe that this document breaches copyright please contact librarypure@kcl.ac.uk providing details, and we will remove access to the work immediately and investigate your claim.



King's Research Portal

DOI:

[10.1016/S1474-4422\(17\)30089-3](https://doi.org/10.1016/S1474-4422(17)30089-3)

[Link to publication record in King's Research Portal](#)

Citation for published version (APA):

Mueller, C., Ballard, C., Corbett, A., & Aarsland, D. (2017). Historical landmarks in dementia with Lewy bodies. *Lancet Neurology*, 16(5), 348. [10.1016/S1474-4422\(17\)30089-3](https://doi.org/10.1016/S1474-4422(17)30089-3)

Citing this paper

Please note that where the full-text provided on King's Research Portal is the Author Accepted Manuscript or Post-Print version this may differ from the final Published version. If citing, it is advised that you check and use the publisher's definitive version for pagination, volume/issue, and date of publication details. And where the final published version is provided on the Research Portal, if citing you are again advised to check the publisher's website for any subsequent corrections.

General rights

Copyright and moral rights for the publications made accessible in the Research Portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognize and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the Research Portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the Research Portal

Take down policy

If you believe that this document breaches copyright please contact librarypure@kcl.ac.uk providing details, and we will remove access to the work immediately and investigate your claim.

Historical landmarks in dementia with Lewy bodies

Author's accepted manuscript

(for formal article: [http://dx.doi.org/10.1016/S1474-4422\(17\)30089-3](http://dx.doi.org/10.1016/S1474-4422(17)30089-3))

Fritz Jakob Heinrich Lewy (1885–1950) described the eosinophilic intraneuronal inclusion bodies, which were later named after him, while studying the neuropathology of Parkinson's disease at Alois Alzheimer's laboratory in Munich, Germany, in 1912.¹

In 1962, John Woodard, neuropathologist at the Camarillo State Hospital in California, US, reported a wide range of neuropsychiatric symptoms and cognitive decline in 27 patients with autopsy proven Lewy body disease, of whom only about a quarter had parkinsonian symptoms.² Over the following decades, Kenji Kosaka (Yokohama City University) and other researchers from Japan reported detailed autopsies of more than twenty patients with a variable distribution of Lewy bodies in their brain stem and cerebral cortex, who clinically presented with varying amounts of cognitive impairment, neuropsychiatric, and motor symptoms.³ Aggregated α -synuclein was shown to be the key component of Lewy bodies in the 1990s¹ and the first international workshop on the disease held in Newcastle in 1995 proposed the term “dementia with Lewy bodies”. Diagnostic criteria were published, including the three core features of fluctuation in cognitive function, visual hallucinations, and spontaneous motor features of parkinsonism.⁴ The criteria were revised in 2005, featuring the introduction of suggestive features (Rapid eye movement sleep behavioural disorder, severe neuroleptic sensitivity, and low dopamine transporter uptake in basal ganglia) and a temporal criterion which distinguishes dementia with Lewy bodies from dementia in Parkinson's disease.⁵ In 2013, dementia with Lewy bodies was included in the Diagnostic and Statistical Manual of Mental Disorders, fifth edition, and we hope that dementia with Lewy bodies will be acknowledged as a separate entity in the International Classification of Diseases, 11th revision.

Christoph Mueller, Clive Ballard, Anne Corbett, Dag Aarsland

References:

- 1 Goedert M, Spillantini MG, Del Tredici K, Braak H. 100 years of Lewy pathology. *Nat Rev Neurol* 2013; 9: 13–24.
- 2 Woodard JS. Concentric hyaline inclusion body formation in mental disease analysis of twenty-seven cases. *J Neuropathol Exp Neurol* 1962; 21: 442–49.
- 3 Kosaka K. Latest concept of Lewy body disease. *Psychiatry Clin Neurosci* 2014; 68: 391–94.
- 4 McKeith IG, Galasko D, Kosaka K, et al. Consensus guidelines for the clinical and pathological diagnosis of dementia with Lewy bodies (DLB). *Neurology* 1996; 47: 1113–24.
- 5 McKeith IG, Dickson DW, Lowe J, et al. Diagnosis and management of dementia with Lewy bodies: third report of the DLB Consortium. *Neurology* 2005; 65: 1863–72.